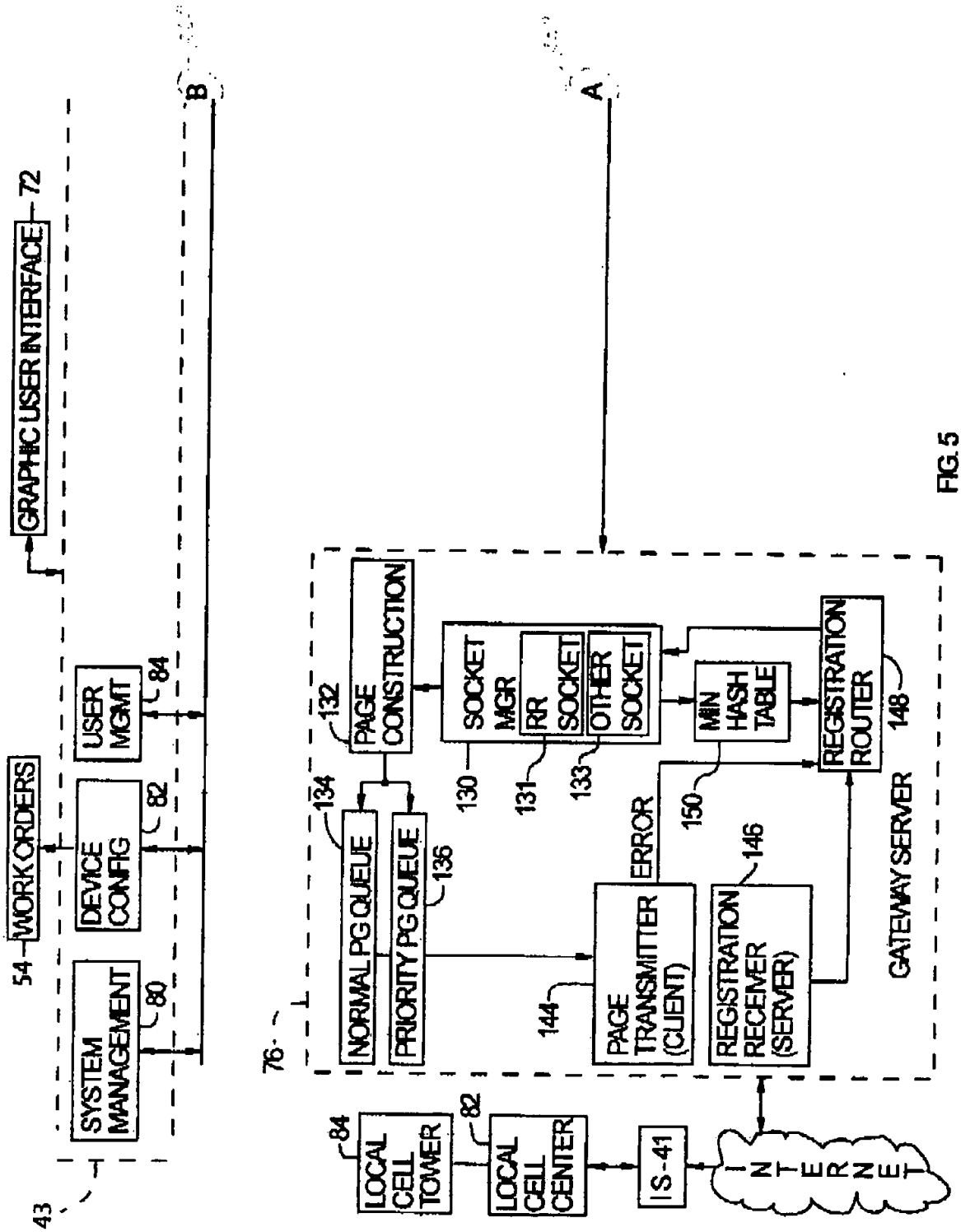
GRAPHIC USER INTERFACE
72
B
A
USER MGMT
84
WORK ORDERS
54
DEVICE CONFIG
82
SYSTEM MANAGEMENT
80
43
76
PAGE CONSTRUCTION
132
SOCKET MGR
130
RR SOCKET
131
OTHER SOCKET
133
MIN HASH TABLE
REGISTRATION ROUTER
148
150
NORMAL PG QUEUE
134
PRIORITY PG QUEUE
136
ERROR
146
144
PAGE TRANSMITTER (CLIENT)
REGISTRATION RECEIVER (SERVER)
GATEWAY SERVER
LOCAL CELL TOWER
84
LOCAL CELL CENTER
82
IS-41
INTERNET

FIG.5

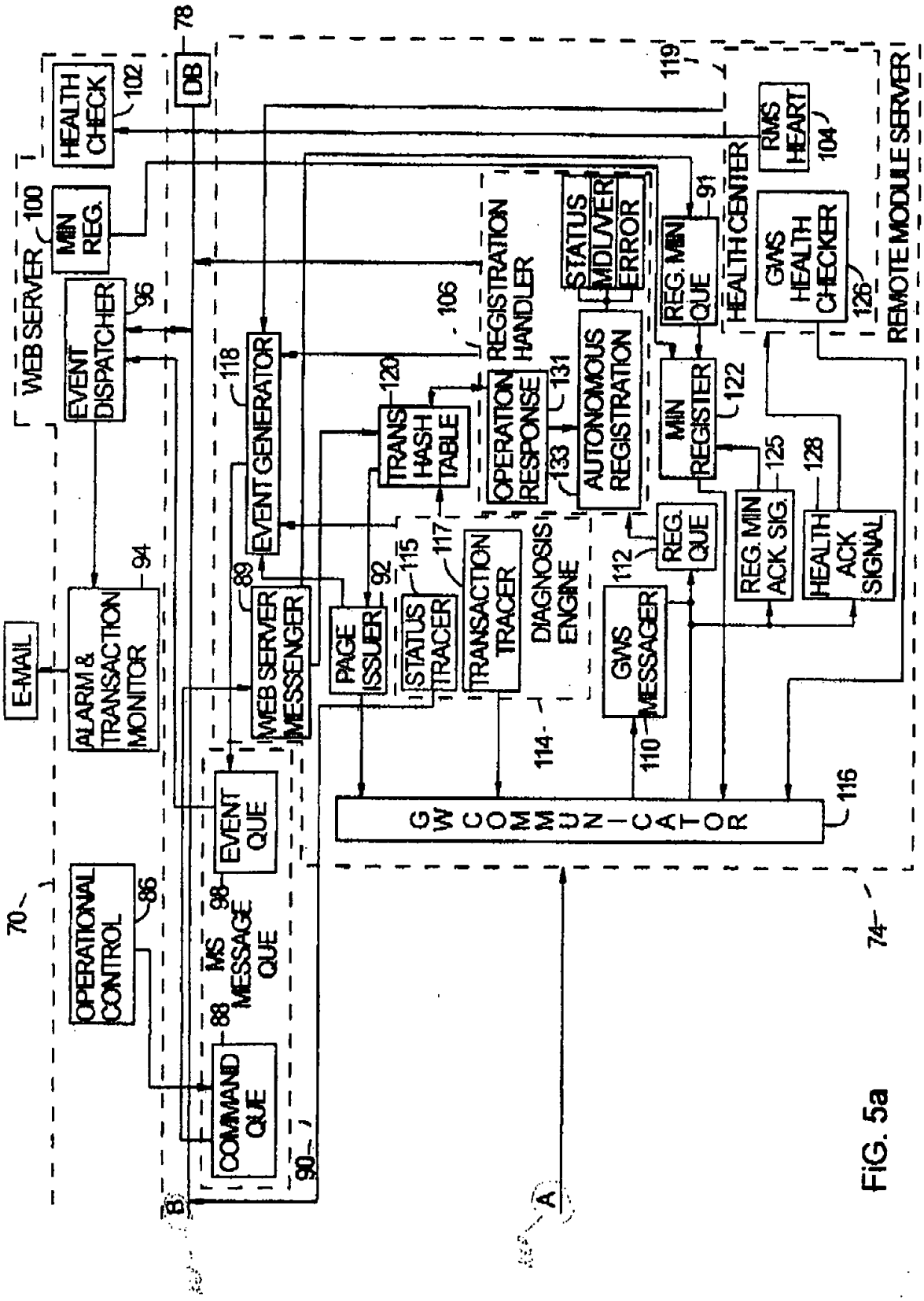
WEB SERVER
100
HEALTH CHECK
102
DB
78
MIN REG.
EVENT DISPATCHER
96
EVENT GENERATOR
118
REGISTRATION HANDLER
106
STATUS MDL/VER ERROR
119
RMS HEART
104
HEALTH CENTER
91
REG. MIN QUE
GMS HEALTH CHECKER
126
REMOTE MODULE SERVER
TRANS HASH TABLE
120
OPERATION RESPONSE
131
AUTONOMOUS REGISTRATION
MIN REGISTER
122
E-MAIL
ALARM & TRANSACTION MONITOR
94
WEB SERVER MESSENGER
89
PAGE ISSUER
92
STATUS TRACER
115
TRANSACTION TRACER
117
DIAGNOSIS ENGINE
133
REG. QUE
112
REG. MIN ACK SIG.
125
HEALTH ACK SIGNAL
128
GMS MESSAGER
110
EVENT QUE
OPERATIONAL CONTROL
86
MS MESSAGE QUE
98
COMMAND QUE
88
90
GW COMMUNICATOR
114
116
70
74
A
B

FIG. 5a

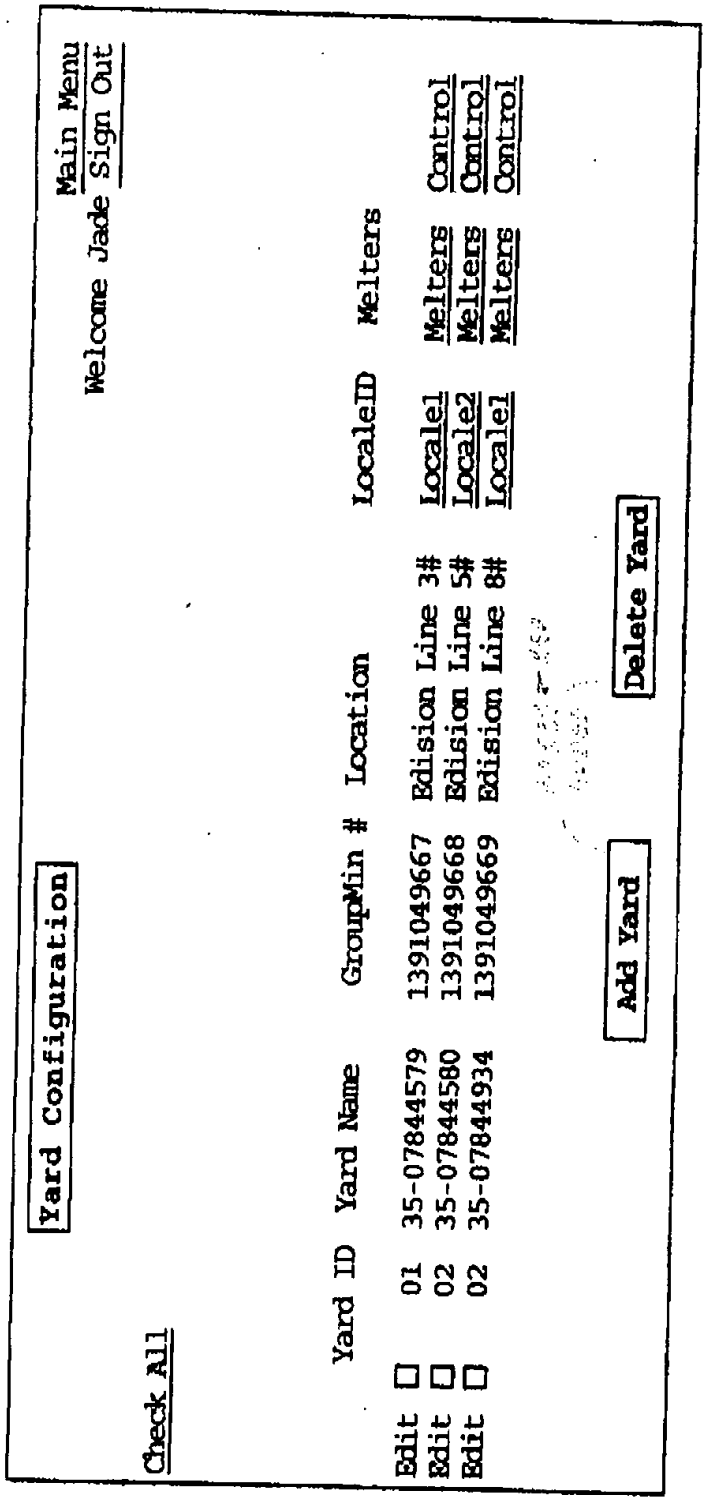
Yard Configuration
Main Menu
Welcome Jade Sign Out
Check All
Yard ID
Yard Name
GroupMin #
Location
LocaleID
Melters
Edit
01
35-07844579
1391049667
Edision Line 3#
Locale1
Melters
Control
Edit
02
35-07844580
1391049668
Edision Line 5#
Locale2
Melters
Control
Edit
02
35-07844934
1391049669
Edision Line 8#
Locale1
Melters
Control
Add Yard
Delete Yard

Fig. 6a

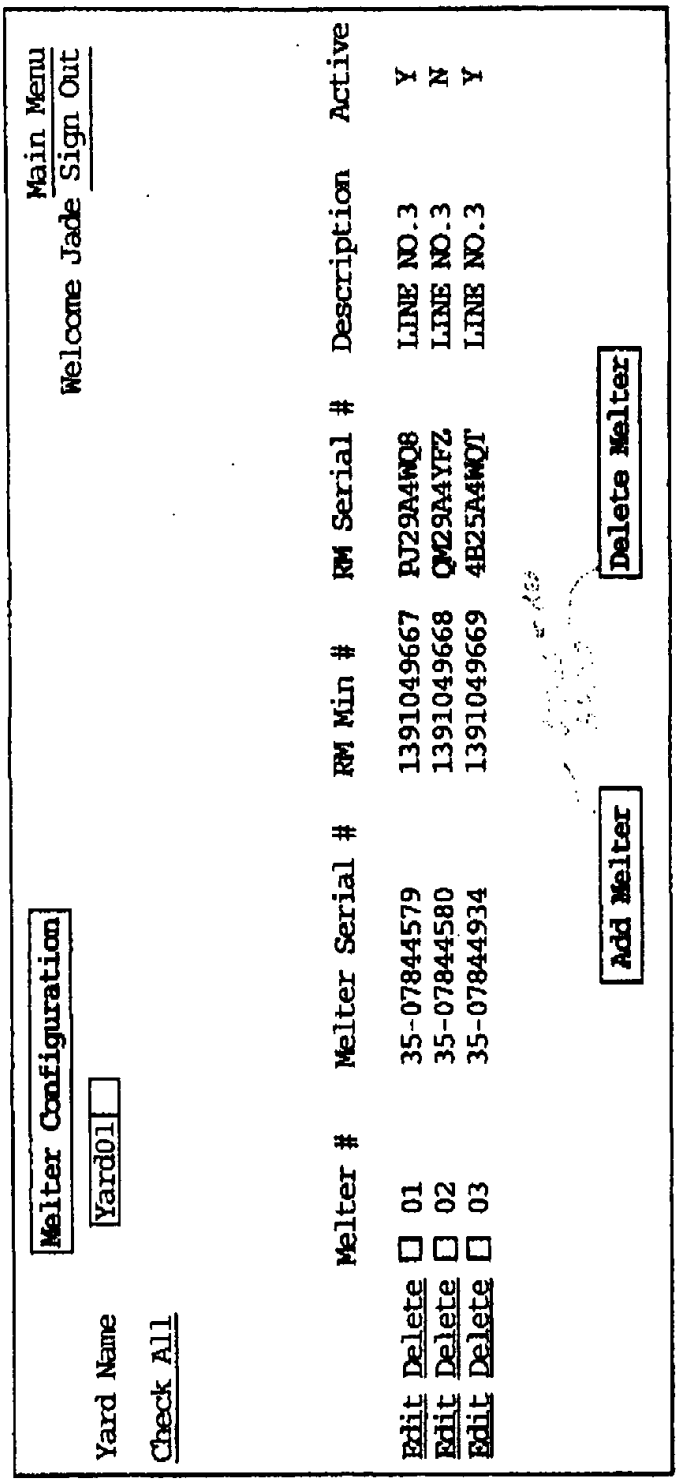
Main Menu
Welcome Jade Sign Out
Melter Configuration
Yard Name Yard01
Check All
Melter # Melter Serial # RM Min # RM Serial # Description Active
Edit Delete 01 35-07844579 1391049667 RJ29A4WQ8 LINE NO.3 Y
Edit Delete 02 35-07844580 1391049668 QM29A4YFZ LINE NO.3 N
Edit Delete 03 35-07844934 1391049669 4B25A4WQT LINE NO.3 Y
Add Melter
Delete Melter

Fig. 6b

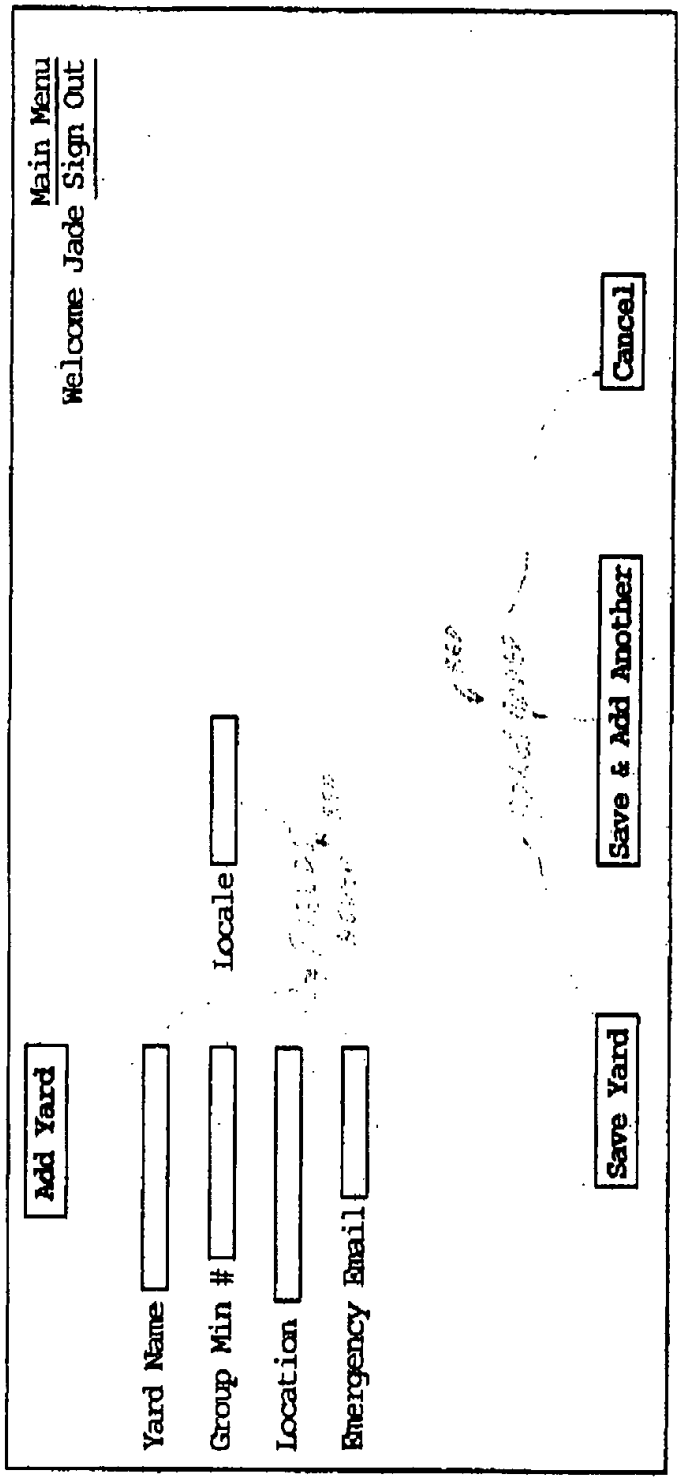
Main Menu
Welcome Jade Sign Out
Add Yard
Yard Name
Group Min #
Locale
Location
Emergency Email
Save Yard
Save & Add Another
Cancel

Fig. 6c

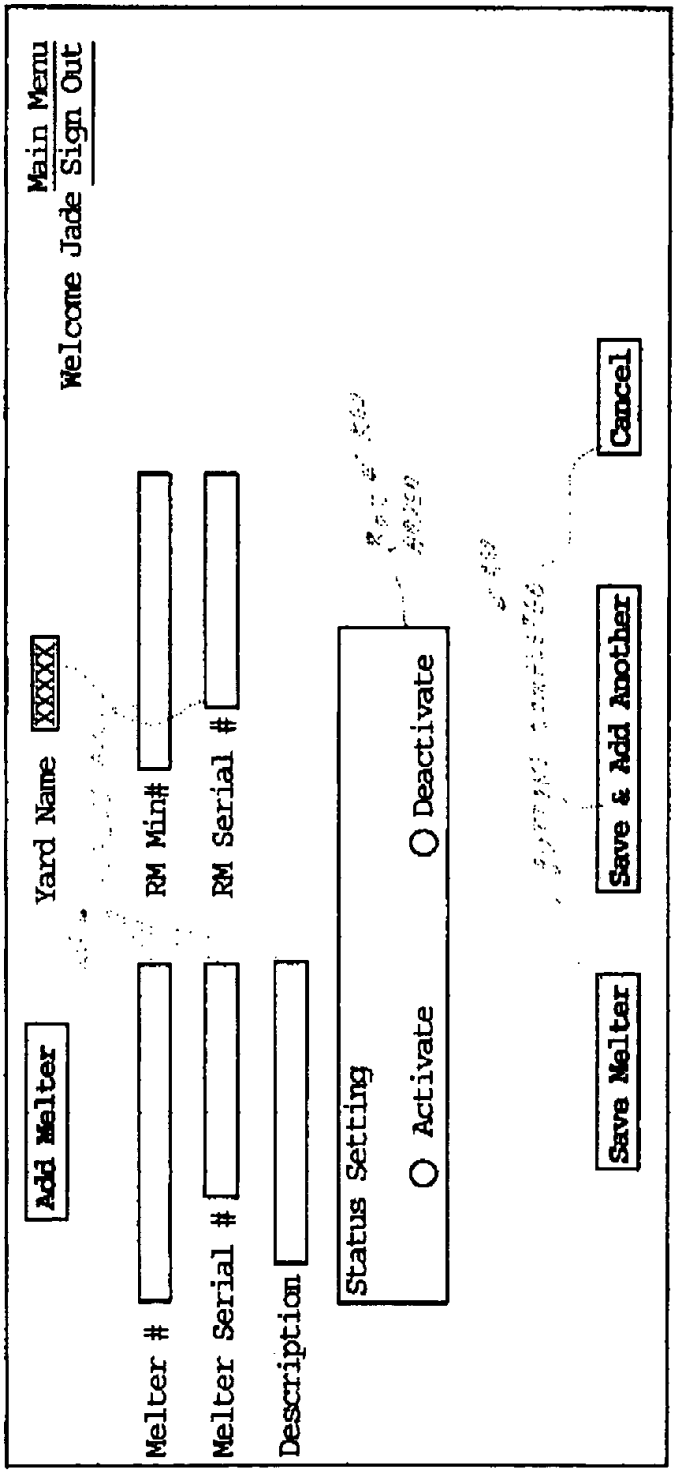
Main Menu
Welcome Jade Sign Out
Add Melter
Yard Name XXXXX
RM Min#
RM Serial #
Melter #
Melter Serial #
Description
Status Setting
Activate
Deactivate
Save Melter
Save & Add Another
Cancel

Fig. 6d

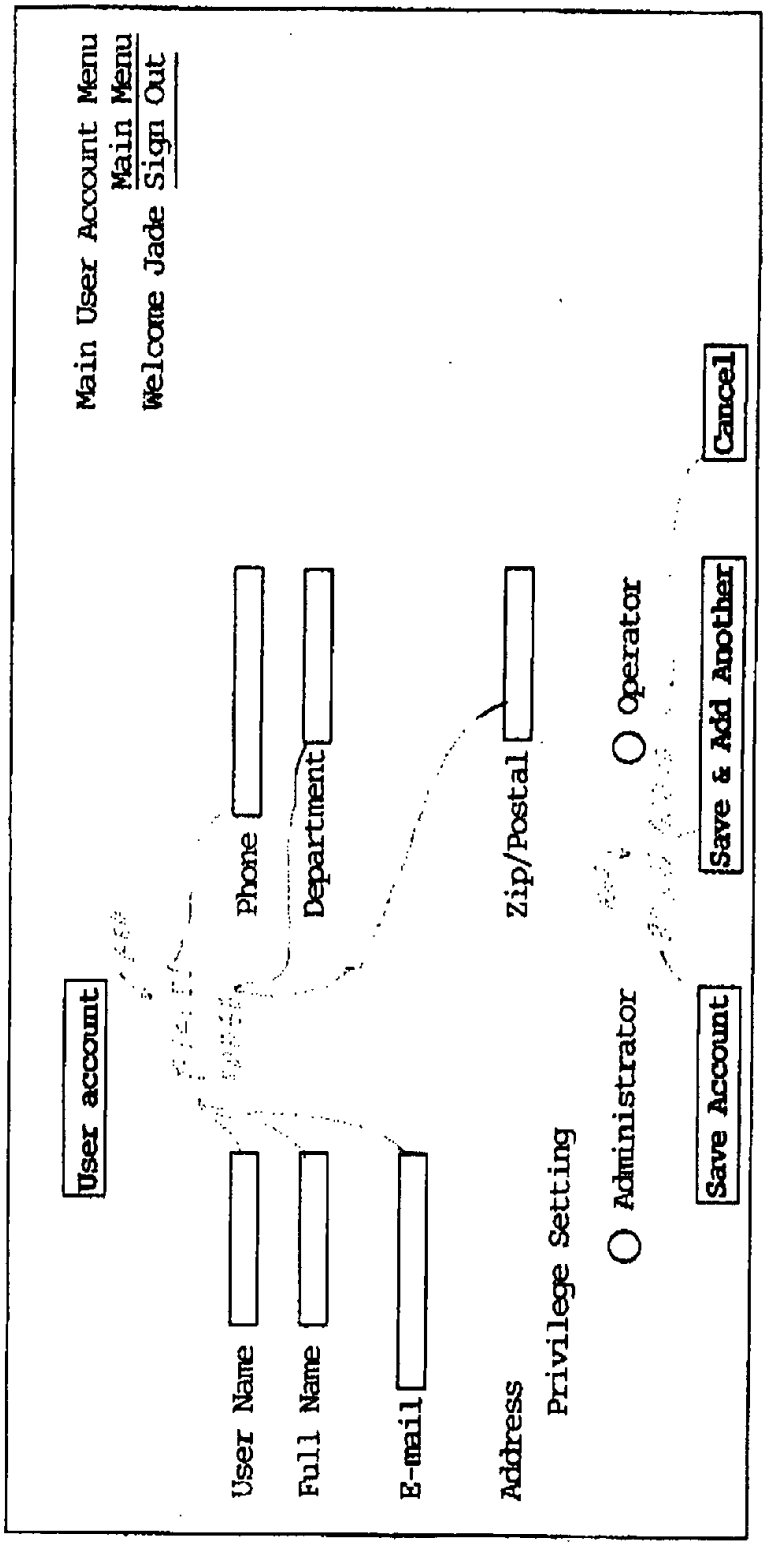
Main User Account Menu
Main Menu
Welcome Jade Sign Out
User account
User Name
Full Name
E-mail
Address
Phone
Department
Zip/Postal
Privilege Setting
Administrator
Operator
Save Account
Save & Add Another
Cancel

Fig. 7d

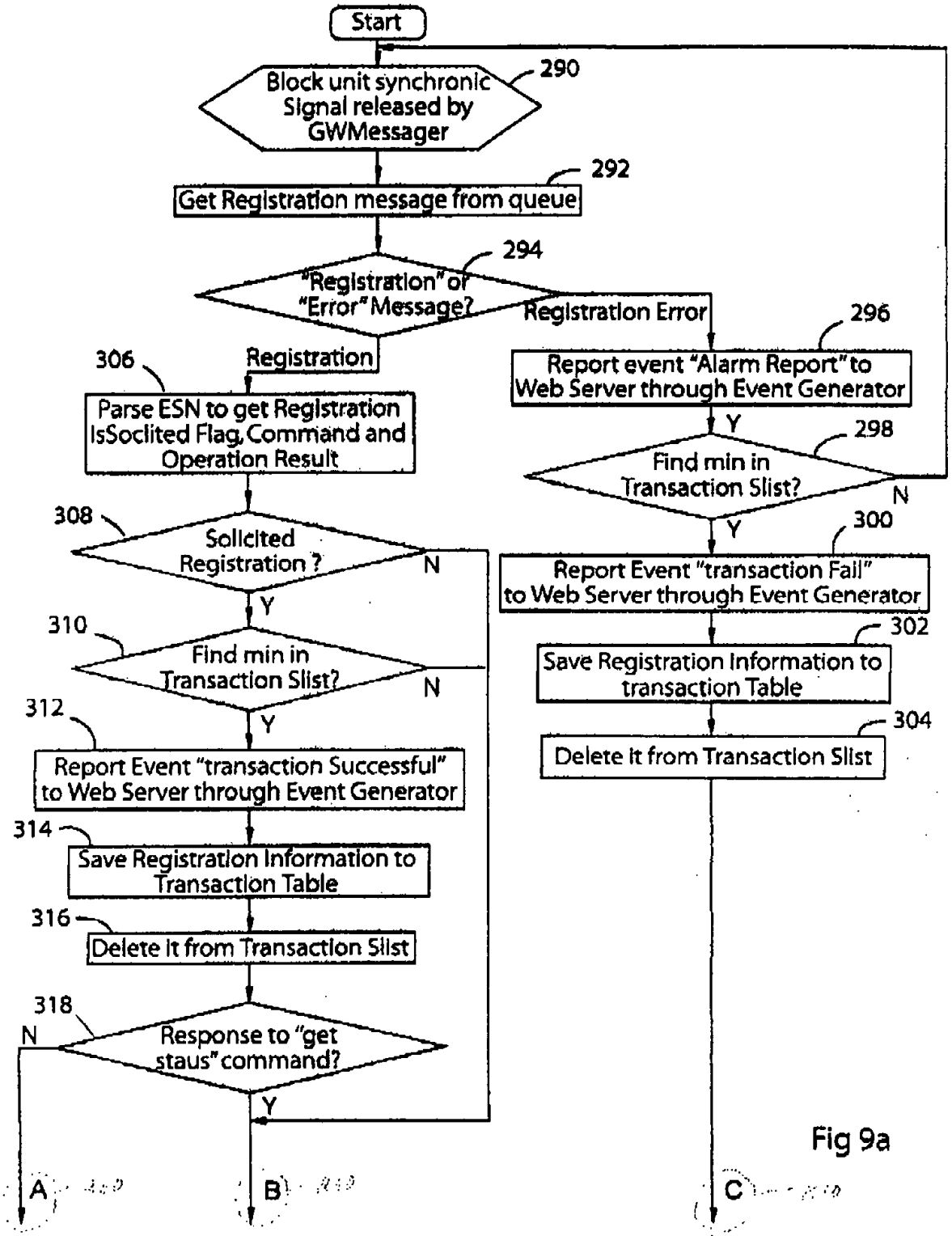
Start
Block unit synchronic Signal released by GWMessager
290
Get Registration message from queue
292
"Registration" or "Error" Message?
294
Registration Error
296
Report event "Alarm Report" to Web Server through Event Generator
Y
Find min in Transaction Slist?
298
N
Y
300
Report Event "transaction Fail" to Web Server through Event Generator
302
Save Registration Information to transaction Table
304
Delete it from Transaction Slist
Registration
306
Parse ESN to get Registration IsSoclited Flag, Command and Operation Result
308
Solicited Registration ?
N
Y
310
Find min in Transaction Slist?
N
Y
312
Report Event "transaction Successful" to Web Server through Event Generator
314
Save Registration Information to Transaction Table
316
Delete it from Transaction Slist
318
N
Response to "get staus" command?
Y
A
B
C

Fig 9a

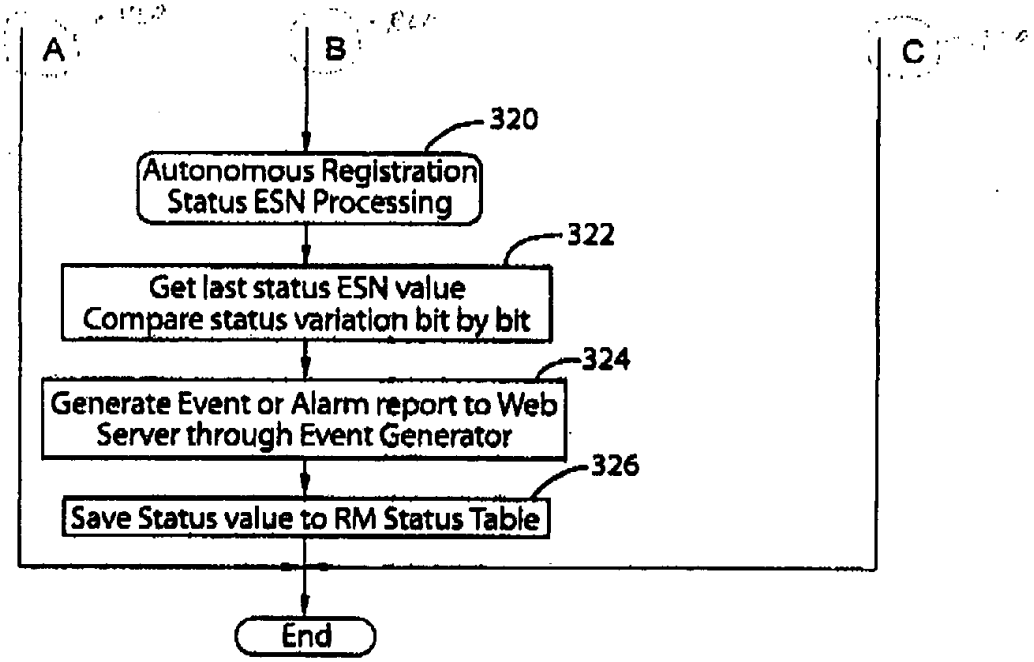
A
B
C
320
Autonomous Registration Status ESN Processing
322
Get last status ESN value Compare status variation bit by bit
324
Generate Event or Alarm report to Web Server through Event Generator
326
Save Status value to RM Status Table
End

Fig. 9aa